

## **AMENDMENTS TO THE CLAIMS**

The listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

Claims 1-30 (Cancelled).

Claim 31. (Currently Amended) ~~[[The]]~~ A processing method as claimed in claim 27, in a mobile communications network system for routing a packet using an IP address between a user in a mobile communications network system and a user inside or outside the mobile communications network system, the processing method comprising the steps of:

generating, at a domain-name server, an IP address of the user in the mobile communications network system including a location address of the user and a user identifier which identifies the user, by acquiring the location address from an apparatus managing a location address of the user; and

storing the generated IP address in connection with a domain name of the user in the mobile communications network system, in a database in the domain-name server, the processing method further comprising the steps of:

referring to a memory managing access link establishment status of a user in the domain-name server, when an inquiry regarding the user is sent to the domain-name server;

commanding an access link termination node in whose area the user is visiting, to establish an access link, if an access link is not established for the user;

establishing, at the access link termination node, an access link between the access link termination node and the user; and

providing, at the access link termination node, the user with the location address, when the access link is established.

Claim 32. (Previously Presented) The processing method as claimed in claim 31, further comprising the step of setting a flag indicating access link establishment in the memory managing access link establishment status, when the access link is established and the IP address is newly registered.

Claim 33 and 34. (Cancelled).